

# FDA Plasma Standards Workshop

# Practices for freezing, storage, and shipping Source Plasma

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### FDA Plasma Standards Workshop Overview—Source Plasma

- Time Held before Freezing
- Freezing Temperature
- Plasma Storage Temperature
- Shipping Temperature



## FDA Plasma Standards Workshop Time Held Before Freezing

- 21CFR 640.69(b) Storage immediately after filling, plasma intended for manufacturing into injectable products shall be stored at a temperature not warmer than -20° C.....
- European Pharmacopoeia (EP) 0853: When obtained by plasmapheresis, plasma intended for the recovery of proteins that are labile in plasma is frozen by cooling rapidly at -30° C or below as soon as possible and at the latest within 24 h of collection
- BioLife Requirements: Place plasma units in freezer within
  thirty (30) minutes of receipt in plasma processing. Note—the
  30 minute time frame should be used as a guide to ensure
  plasma is placed in freezer without undue delay.



#### FDA Plasma Standards Workshop Freezing Temperature

- CFR and EP requirements are consistent with previous slide
- BioLife Requirements:
  - ➤ Source Plasma for further manufacture of US products meet CFR requirements and are placed in a freezer operating at -20° C or colder.
  - ➤ Source Plasma for further manufacture of European Union (EU) non-labile proteins meet EP requirements and are placed in a freezer operating at -20° C or colder.
  - ➤ Source Plasma for further manufacture of EU labile proteins meet EP requirements and are placed in a freezer operating at -30° C or colder.



## FDA Plasma Standards Workshop Plasma Storage Temperature

- 21CFR 640.69(b) Storage immediately after filling, plasma intended for manufacturing into injectable products shall be stored at a temperature not warmer than -20° C.....
- European Pharmacopoeia (EP) 0853: Store and transport frozen plasma at or below -20° C...
- BioLife Requirements:
  - ➤ All Source Plasma for further manufacture are stored in a freezer operating at -20° C or colder.



## FDA Plasma Standards Workshop Shipping Temperature

- 21CFR 640.76(2)(b): Shipping Temperature If Source Plasma for manufacture into injectable products is exposed inadvertently to a shipping temperature warmer than -5°
- European Pharmacopoeia (EP) 0853: Store and transport frozen plasma at or below -20° C...
- BioLife Requirements:
  - ➤ Transport at or below -20° C. Acceptance based on US and EP requirements.



### FDA Plasma Standards Workshop Other Points to consider

- Current CFR definition of "inadvertent exposure" (i.e., an unforeseen occurrence in spite of compliance with good manufacturing practices) is not clear.
- Current CFR allows for one episode warmer than -20° C for up to 72 hours but does not allow for multiple episodes of shorter duration.
- Current EP Monograph does not allow for "Source Plasma Salvaged" definition.



### FDA Plasma Standards Workshop Conclusions

- Baxter BioScience and BioLife specifications are based on the CFR and EP regulations
- Freezing and storage conditions of -20° C or colder appear suitable for Source Plasma
- Appears to be no safety or quality related issues for finished product